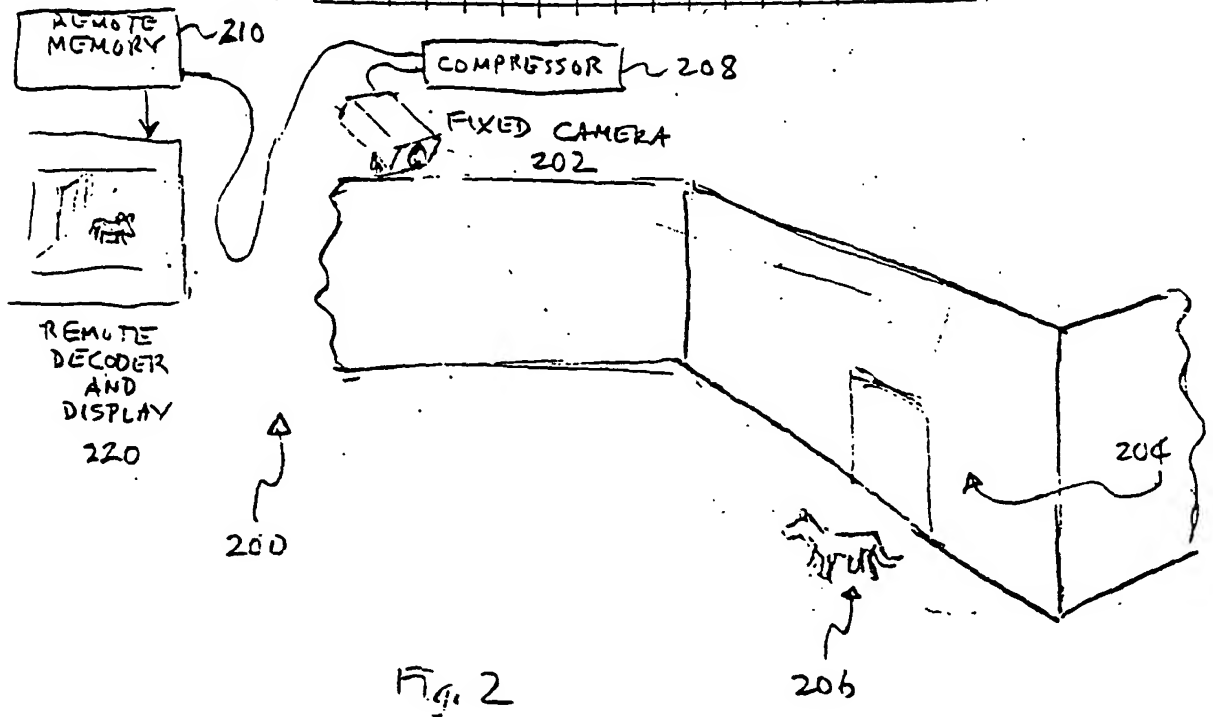
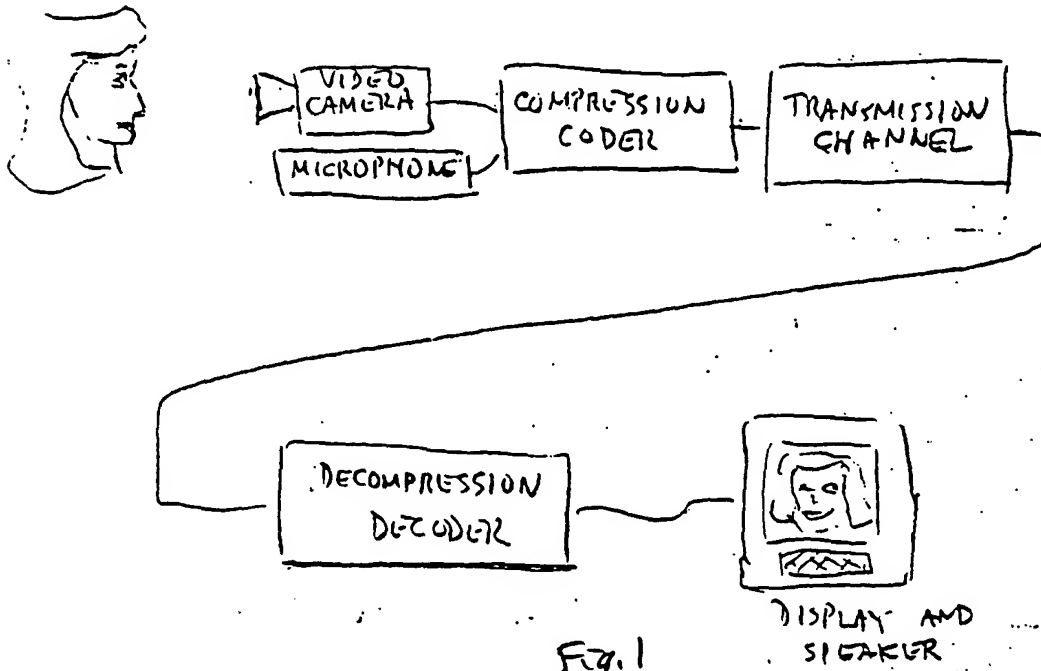


Attorney \_\_\_\_\_



# OBJECT-BASED VIDEO COMPRESSION (OBVC)

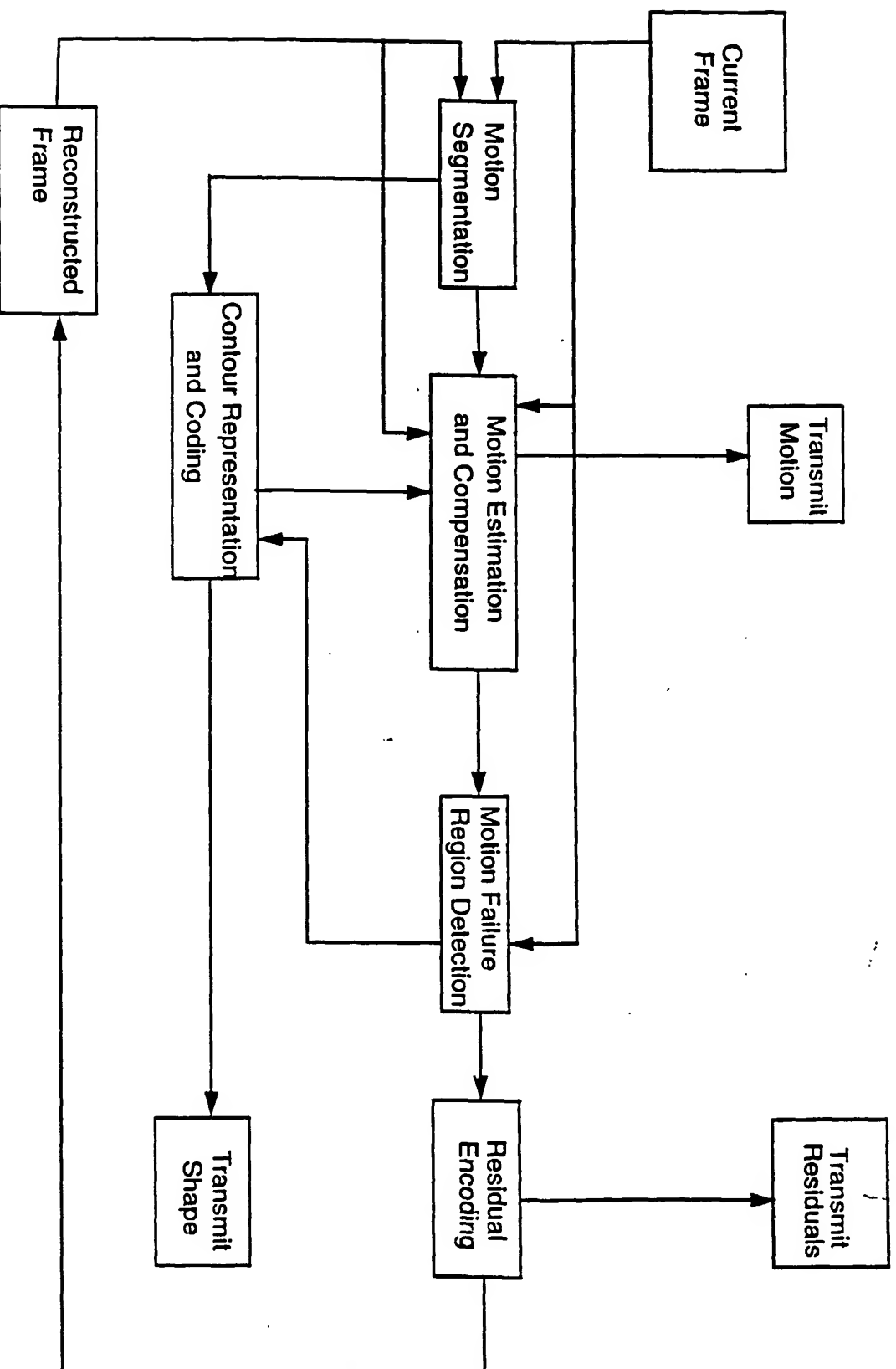


Figure 3

Frame 1



Fig. 4a

Frame 4



Fig. 4b



Differences

Completing? 255 = white  
0 = dark ?

Fig 4c



Segmentation Mask

Fig 4d

Fig.

# PATENT SKETCH FORM

Sheet No.      Of     

Attorney                     

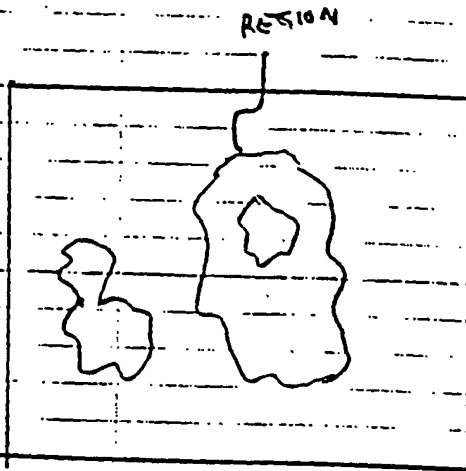


Fig. 5a

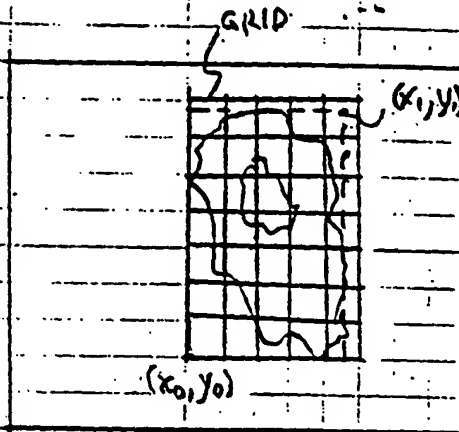


Fig. 5c

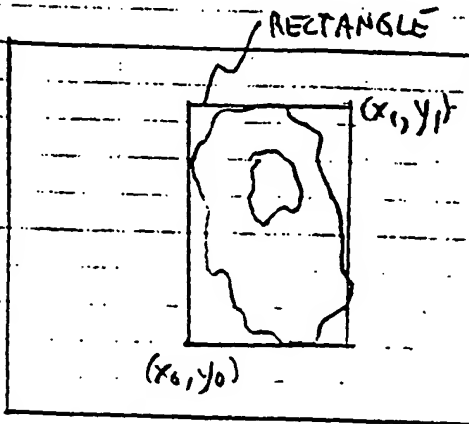


Fig. 5b

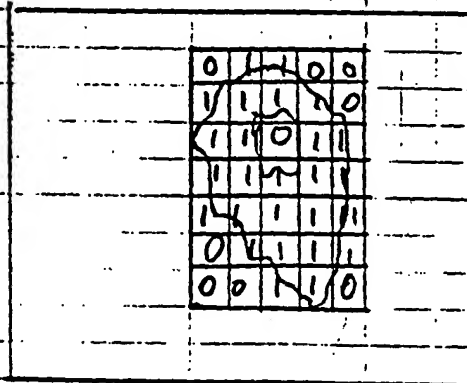
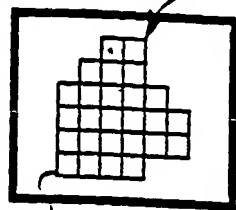
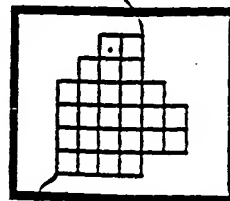


Fig. 5d

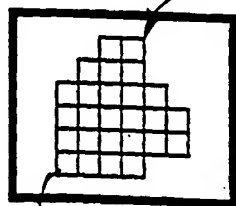


$(x_0, y_0)^{n-1}$

Fig. 5d

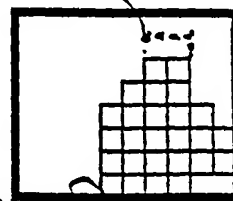


$(x_0, y_0)^n$

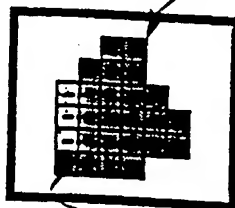


$(x_0, y_0)^{n-1}$

Fig. 5e

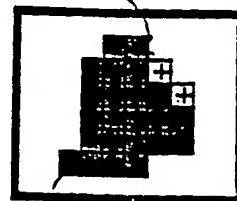


$(x_0, y_0)^n$

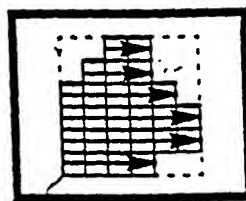


$(x_0, y_0)^{n-1}$

Fig. 5f

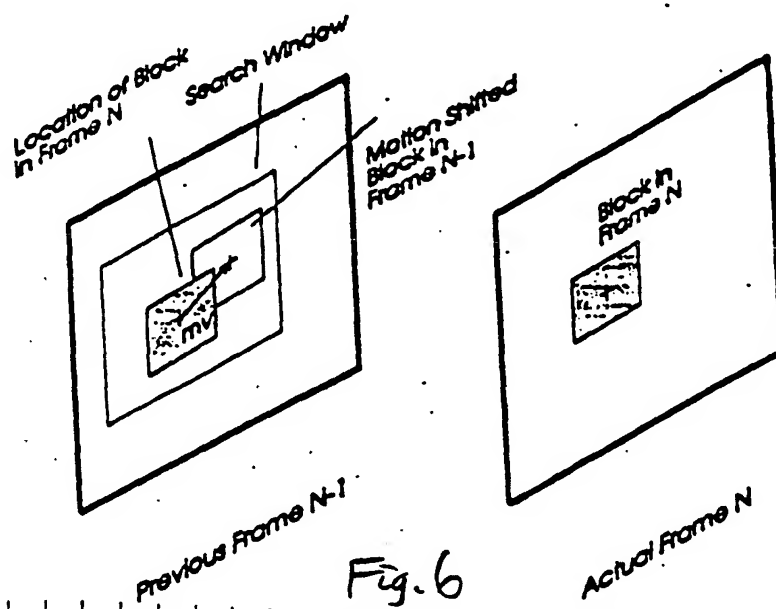


$(x_0, y_0)^n$



$(x_0, y_0)$

Fig. 5g



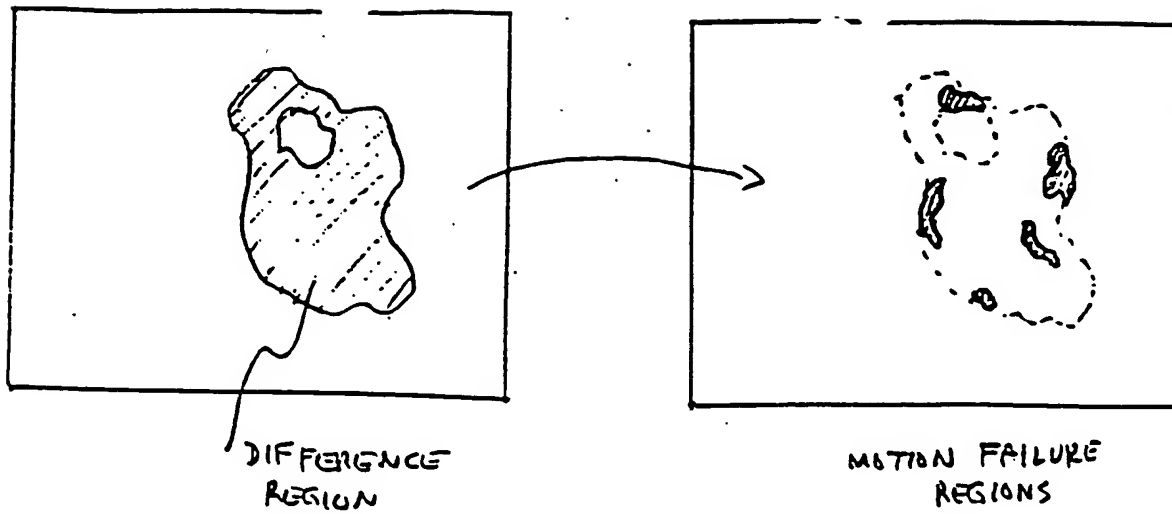


Fig.7

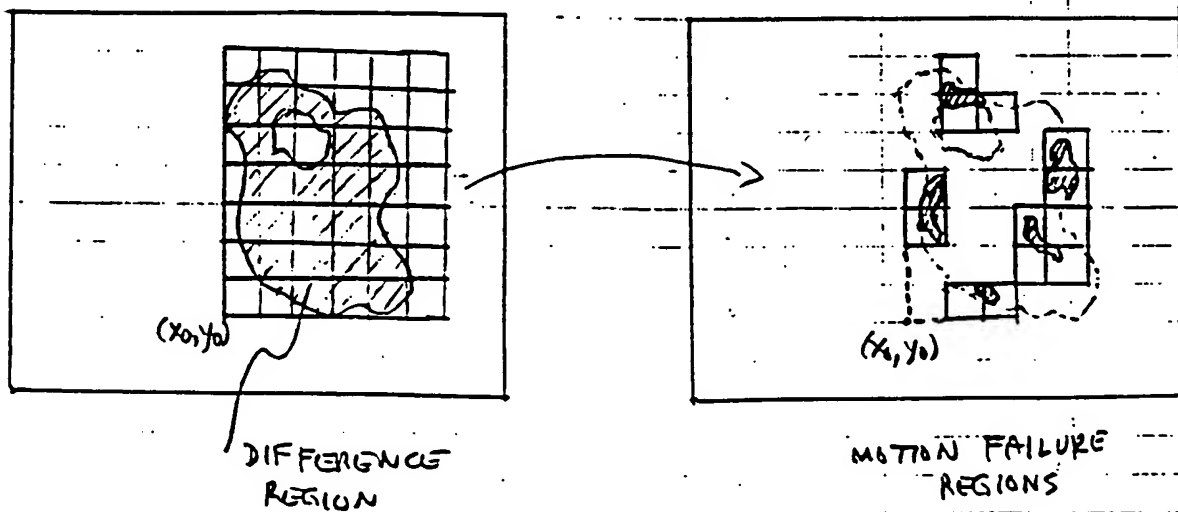


Fig.8

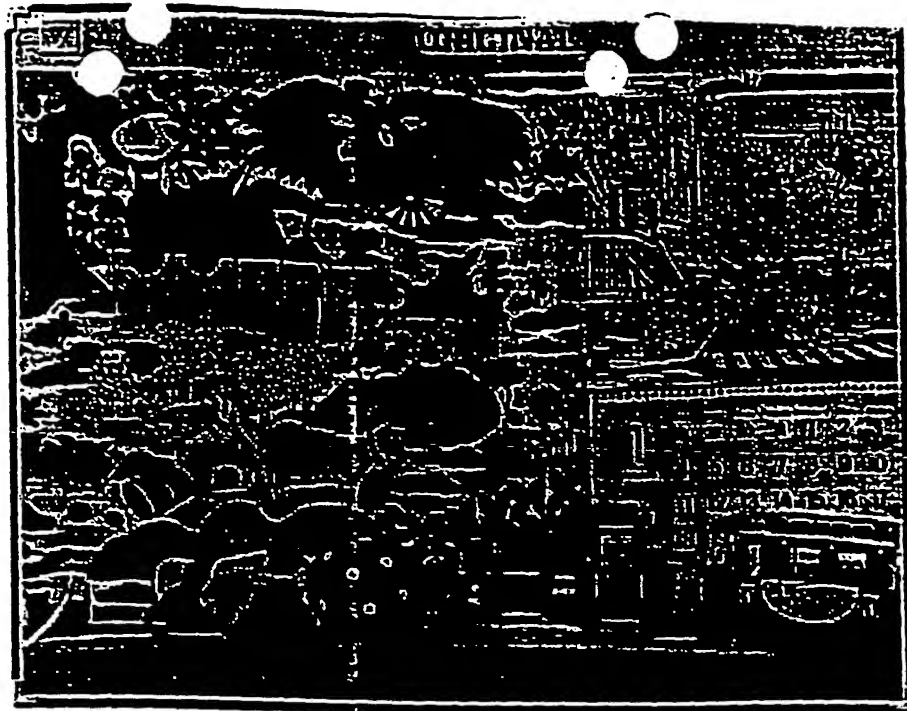


Fig. 9a

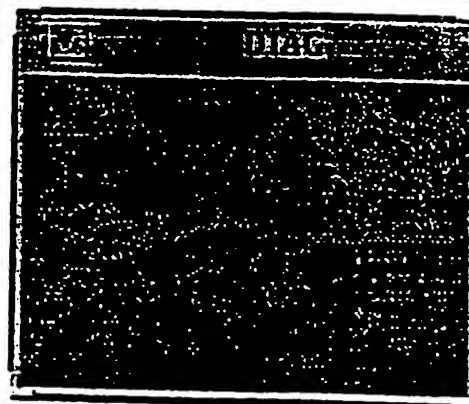
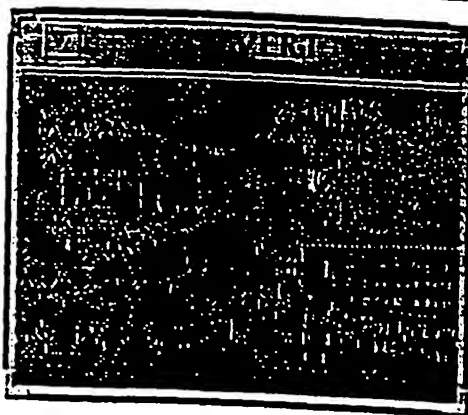
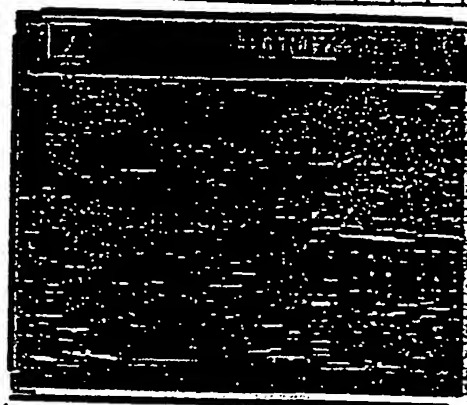
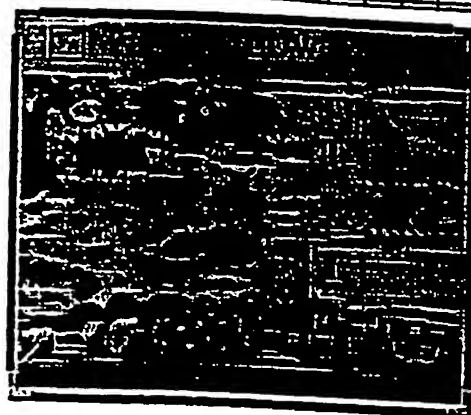
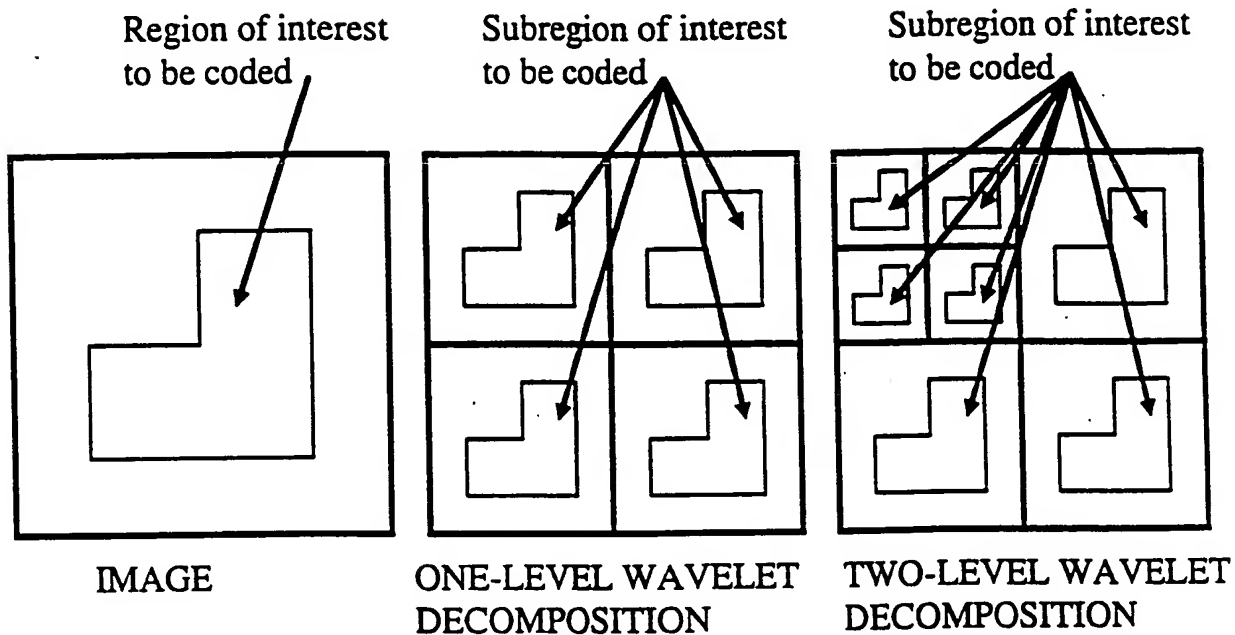


Fig. 9b





IMAGE

ONE-LEVEL WAVELET DECOMPOSITION

TWO-LEVEL WAVELET DECOMPOSITION

Figure 10 a

Figure 10 b

Figure 10 c

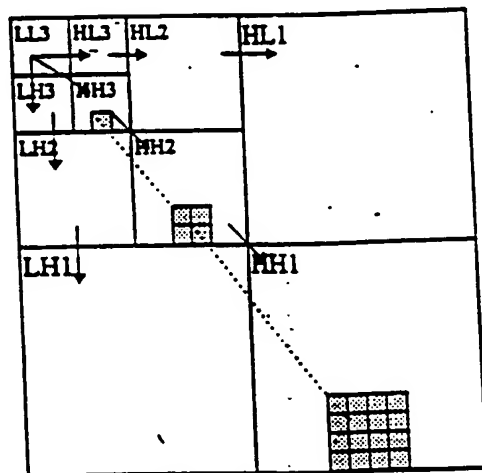


Fig. 11

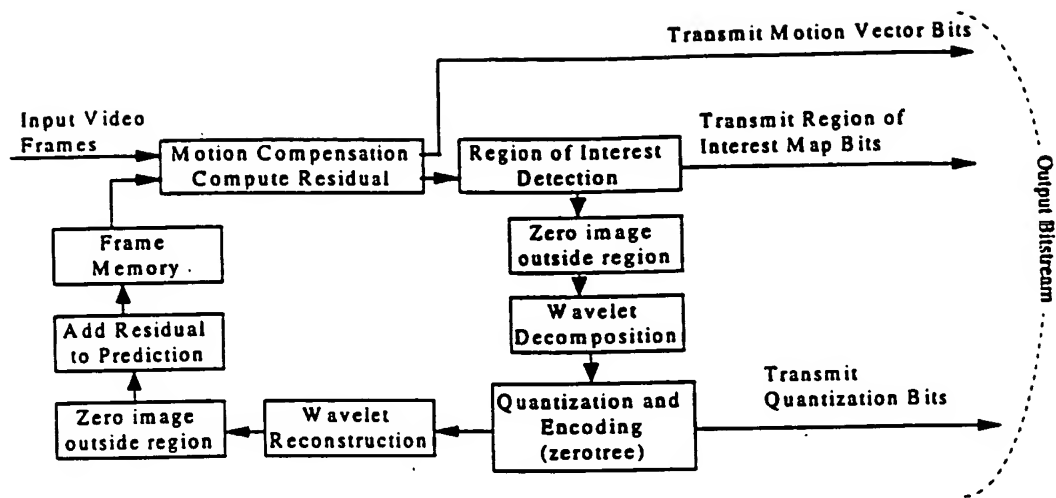


Figure 12



Fig. 13a First frame of video



Fig. 13b Segmentation mask

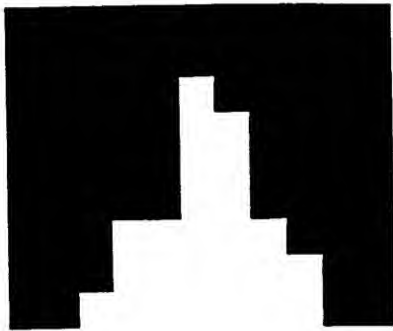


Fig. 13c Blocked mask

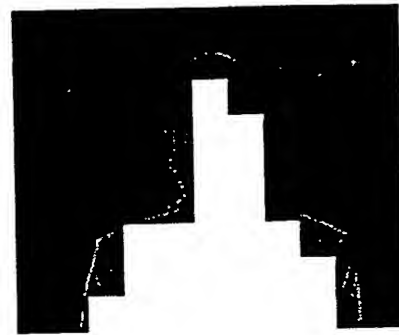


Fig. 13d Extracted background

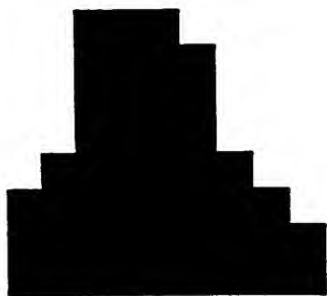


Fig. 13e Blocked object mask

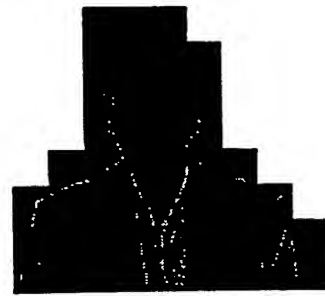


Fig. 13f Extracted object

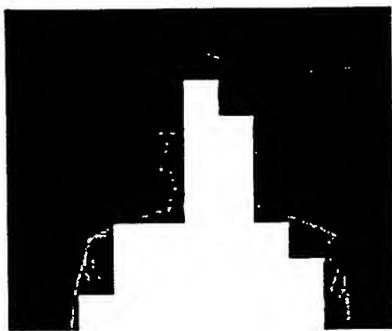


Fig. 13g Recon background object



Fig. 13h Recon object



Fig. 13i Recon frame



Fig. 13j Next frame



Fig. 13k Segmentation mask

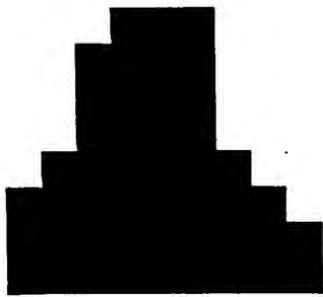


Fig. 13l Blocked object mask

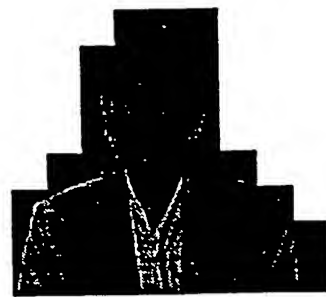


Fig. 13m Extracted object

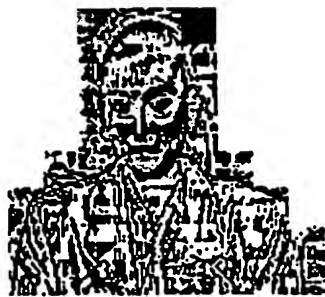


Fig. 13n Object difference

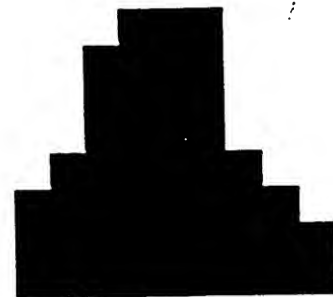


Fig. 13o Adjusted block mask



Fig. 13p Reconstructed object with average background

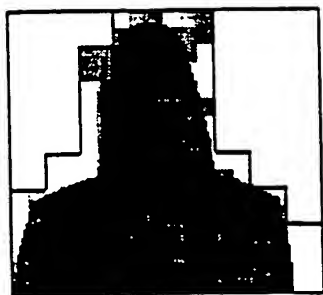


Fig. 13q



Fig. 13r

DCT coding results; light grey blocks indicate which blocks were DCT coded.



Fig. 13s Uncovered background pixels



Fig. 13t Mask



Fig. 13u Image



Fig. 13v Recon frame



**Fig. 14a Original content**



**Fig. 14b Object dropped**



ENCODER

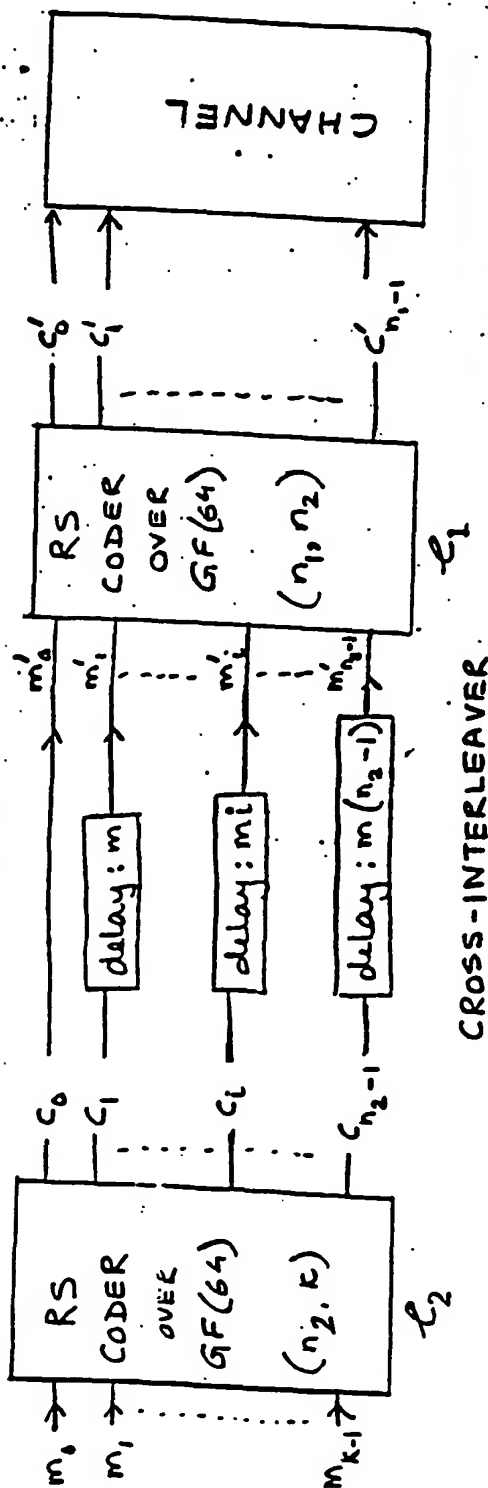
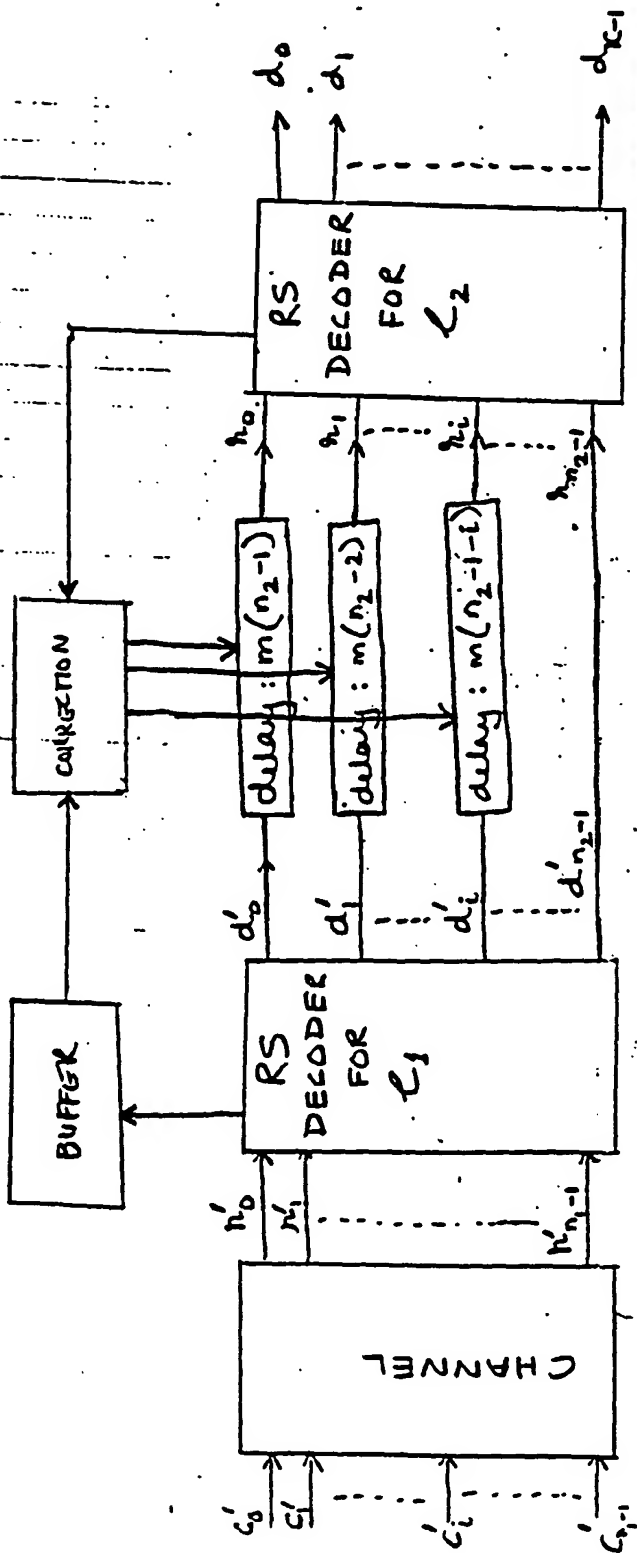


Fig. 15a

# DECODER



DEINTERLEAVER

Fig. 15b

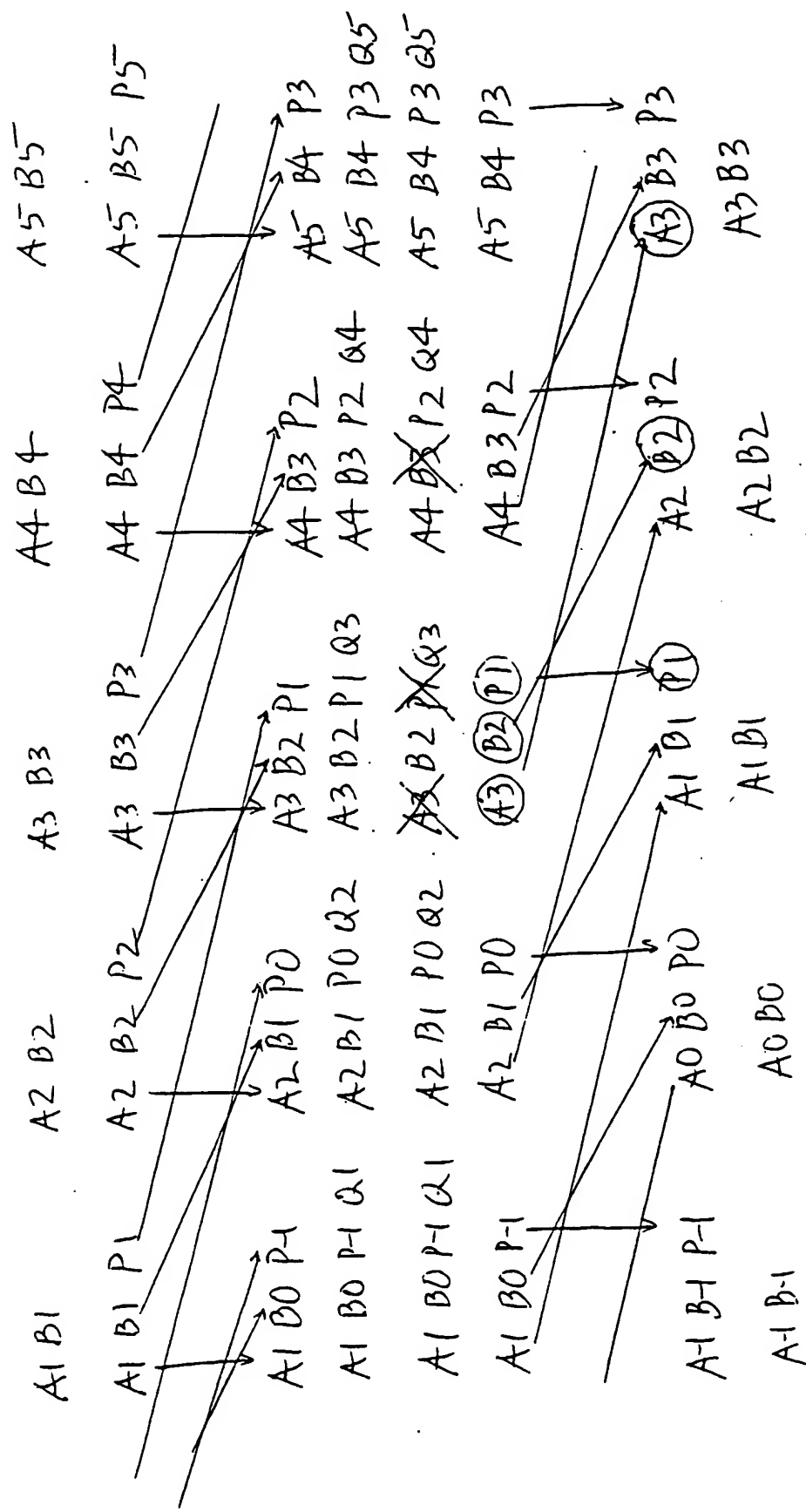


Fig. 16a

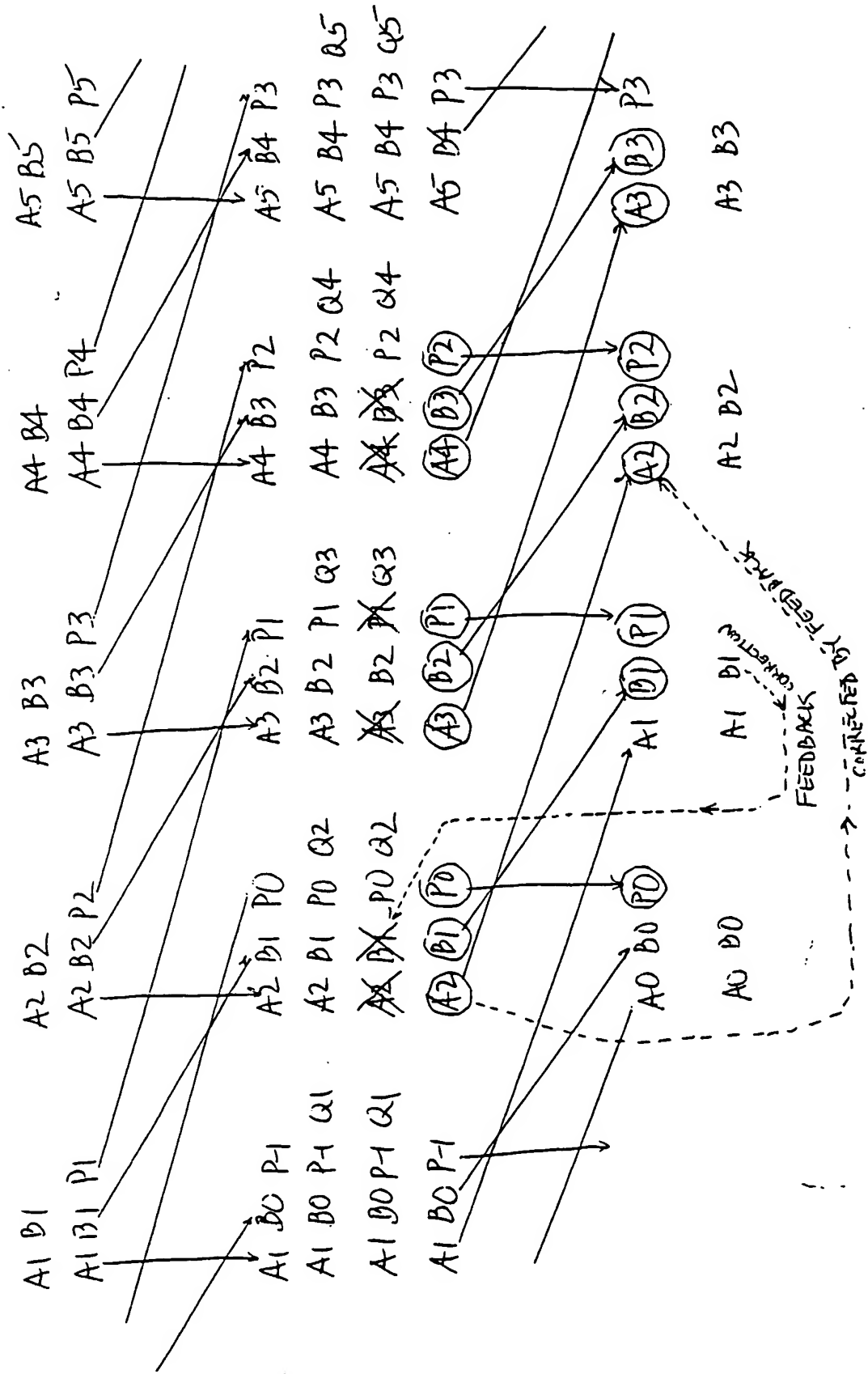


Fig. 16b